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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: V. Faber et al.

Attorney Docket No.: LIZA118255

Application No.: 10/006,999

Group Art Unit: 2621

Filed: December 3, 2001

Title:

METHOD FOR LOSSLESS ENCODING OF IMAGE DATA BY
APPROXIMATING LINEAR TRANSFORMS AND PRESERVING
SELECTED PROPERTIES FOR IMAGE PROCESSING



INFORMATION DISCLOSURE STATEMENT

March 13, 2002

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

Copies of the listed patents, publications, and other information are enclosed for the Examiner's use.

Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid addressed to the U.S. Patent and Trademark Office, P.O. Box 2327, Arlington, VA 22202, on the date specified below.

Date: March 13, 2002

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**INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE
PROSECUTION OF THE SUBJECT APPLICATION**

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U.S. PATENT DOCUMENTS

Examiner Cite	Kind	Date	
Initials No.	Document No.	Code	(mm/dd/yyyy) Name

None

FOREIGN PATENT DOCUMENTS

*Examiner Cite	Kind	Publication Date	Country	English Abstract Translation Provided
Initial No.	Document No.	Code (mm/dd/yyyy)		Provided

None

OTHER INFORMATION

*Examiner Cite	Description (Including Author, Title, Date, Pertinent Pages, Etc.)
Initial No.	
_____ O1	Daubechies, I. and W. Sweldens, "Factoring Wavelet Transforms Into Lifting Steps," <i>J. Fourier Anal. Appl.</i> 4:247-269, 1998.
_____ O2	Gohberg, I., et al., <i>Matrix Polynomials</i> , Academic Press, New York, 1982, Chapter S-1, "The Smith Form and Related Problems," pp. 313-341.
_____ O3	Park, H., "A Realization Algorithm for $SL_2(R[x_1, \dots, x_m])$ Over the Euclidean Domain," <i>SIAM J. Matrix Anal. Appl.</i> 21:178-184, 1999.
_____ O4	Park, H. and C. Woodburn, "An Algorithmic Proof of Suslin's Stability Theorem for Polynomial Rings," <i>J. Algebra</i> 178:277-298, 1995.
_____ O5	Sweldens, W., "The Lifting Scheme: A Custom-Design Construction of Biorthogonal Wavelets," <i>Appl. Com-put. Harmon. Anal.</i> 3:186-200, 1996.
_____ O6	Sweldens, W., "The Lifting Scheme: A Construction of Second-Generation Wavelets," <i>SIAM J. Math. Anal.</i> 29:511-546, 1998.

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- _____ O7 Tolhuizen, L., et al, "On the Realizability of Bi-Orthogonal, M-Dimensional Two-Band Filter Banks," *IEEE Trans. Signal Processing* 43:640-648, 1995.
- _____ O8 Villasenor, J., et al., "Wavelet Filter Evaluation for Image Compression," *IEEE Trans. Image Processing* 4:1053-1060, 1995.

Examiner

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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